

# INSTRUCTIONS FOR DIGITAL MICROMETER

## Important Notice

- 1) Before using this product, please read this manual carefully. When you begin to use it, you are considered to have read the instructions carefully.
- 2) Any improvements or technical changes for this product will be without extra notice.

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## Important

- Before using this digital micrometer for the first time, wipe the rust preventive oil from the digital micrometer with soft cloth soaked with cleaning oil.
- Remove the battery if the instrument not use for a long time (more than 3 months). Otherwise, battery leakage may occur, and the leakage may damage the product.
- In order to prevent the water from entering the digital module, tighten the battery cover after loading the battery. Besides, do not take out the sealing O ring.
- Never apply voltage on any part of this product or engrave with an electrical pen on it.
- Anti-rust treatment shall be done after operation, rust may cause malfunction to this product.

## Safety Precautions

- When using this product, please follow the directions, specifications and features given in this manual.
- Beyond the scope of use will affect the safety performance of the product.

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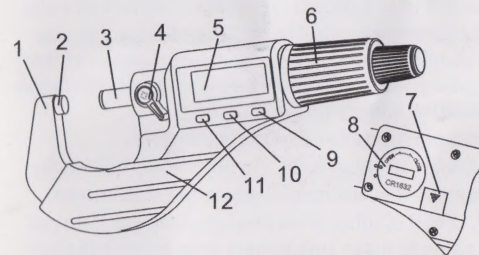
- Do not dismantle the battery, do not make the battery short circuited. Never charge or heat the battery, or it may cause the battery heated, ruptured and the leakage of battery fluid may enter the eyes.
- If a battery is swallowed, immediately consult a doctor.

## Specifications

- Resolution: 0.001mm / 0.00005"
- Permissible error:  $\pm 0.002\text{mm}$  (25/50mm) /  $\pm 0.0001"$  (1/2"),  $\pm 0.003\text{mm}$  (75/100/125/150mm) /  $\pm 0.00015"$  (3/4 / 5/6"),  $\pm 0.004\text{mm}$  (175/200/225/250mm)  $\pm 0.002"$  (7/8/9 / 10"),  $\pm 0.005\text{mm}$  (275/300mm) /  $\pm 0.00025"$  (11/12"),  $\pm 0.006\text{mm}$  (325/350/375/400mm) /  $\pm 0.0003"$  (13/14/15/16"),  $\pm 0.007\text{mm}$  (425/450/475/500mm) /  $\pm 0.00035"$  (17/18/19/20").
- Repeatability: 0.001mm / 0.00005"
- Battery: CR1632
- Battery life: 1 years
- Operating temperature: 0°C ~ 40°C
- Storage temperature: -10°C ~ 60°C
- Setting speed: 30mm/s

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## Components & Functions



- |                                 |                     |                  |
|---------------------------------|---------------------|------------------|
| 1. Frame                        | 2. Anvil            | 3. Spindle       |
| 4. Locking device               | 5. LCD screen       | 6. Ratchet stop  |
| 7. Data output port cover       | 8. Battery cover    |                  |
| 9. ON/OFF button (data collect) | 10. UNIT/SET button | 11. 0/ABS button |
| 12. Insulant pad                |                     |                  |

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## How to use

### Important

- Use CR1632 Lithium manganese button cell only.
- The battery supplied is used only for the purpose of checking the functions and performance of the digital micrometer, therefore it may not satisfy the specified battery life.
- Set 0 position after loading the battery.
- Disposal of waste batteries must comply with the relevant discarding procedure and regulations.
- LCD will display ,if no display , take out then put in again to make sure battery pole piece is in right contact.

### 1>Loading the battery

- (1) Loading or replacing the battery must follow the following procedures.
- (2) Take off the battery cover by following the open arrow with the CR1632 battery.
- (3) Take out the flat battery.
- (4) Loading the battery with the positive pole facing upward.
- (5) Put on the battery cover, tighten the battery cover by following the close arrow with the waste CR1632 battery.

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## 2) UNIT/SET

### (1) Origin setting

Screen display numbers after loading the battery. Clean the measuring faces with a soft cloth or soft paper, turn the ratchet stop to close the measuring faces (use the proofreading rod if the measuring range greater than 25 mm). Press the button UNIT/SET for more than 3 seconds.

[0.000] or "0.00000" (inch mode) will be displayed on the screen. It shows the Origin has been set. (It shows range lower limit if the range greater than 25 mm)

### (2) mm/in (Metric and inch system conversion)

Each quick press the button UNIT/SET to switch to mm or inch mode alternately.

### Important

- When pressing the button UNIT/SET to set origin after loading the battery, do not turn the thimble. Otherwise, error may occur.
- Turn the ratchet stop can't overexert.

## 3) 0/ABS

- (1) Quick press the button 0/ABS, INC is shown, it turns to the origin of relative measurement { [0.000] or "0.00000" (inch mode) is shown }. Relative measurement can be obtained in the mode of INC.

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- (2) Press the button 0/ABS for more than 1 second when it is in the state of INC, it will be shown absolute value (INC disappear).

## 4) ON/OFF

- (1) When the measurement is done, the display will disappear after 20 minutes if the thimble is not turned. If the display is needed, press the button ON/OFF. If the digital micrometer is not used for more than 150 hours, its origin needs to be set before measurement.
- (2) When the data cable is connected to the digital micrometer, "-----" will be shown on the screen. Each quick press the button ON/OFF, it will output the display value once.

## Errors and Solutions

- 1) " " appears on the LCD  
means voltage is insufficient, pls change new battery. (pls refer to "how to use" step 1)
- 2) "Err\_1" appears on LCD  
means cannot show the actual reading, please press 0/ABS till [0.000] or "0.00000" appears on the LCD, then refer to the "how to use" step 2 reset ORIGIN.

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